PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

International Application No.

FCT/Ji OC/03881

International Filing Date

PCT International Application
JAPANESE PATENT OFFICE

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference 2635WO0P (if desired)(12 characters maximum) Box No. I TITLE OF INVENTION Benzimidazole Compound Crystal Box No. II **APPLICANT** Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) X This person is also inventor. Telephone No. FUJISHIMA Akira Facsimile No. 1-6, Fujigaoka 1-chome, Sanda-shi, HYOGO 669-1547 JAPAN Teleprinter No. State (that is, country) of residence: State (that is, country) of nationality: Japan Japan This person is applicant all designated States all designated States except the United States of America the United States the States indicated in the Supplemental Box Х for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Box No. III Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only AOKI Isao applicant and inventor 17-1, Daiwahigashi 3-chome, Kawanishi-shi inventor only (If this check-box is marked, do not fill in below.) HYOGO 666-0111 JAPAN State (that is, country) of residence: State (that is, country) of nationality: Japan Japan all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box This person is applicant l x l for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. Х AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf of common representative agent the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country., Telephone No. 03-3278-2235 Patent Attorney, Registered No. 11404, TAKAHASHI Shuichi Facsimile No. 03-3278-2222 c/o Osaka Plant of Takeda Chemical Industries, Ltd. 17-85, Jusohonmachi 2-chome, Yodogawa-ku, Teleprinter No. Osaka-shi, OSAKA 532-0024 JAPAN Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Sheet	NIA	9
Sheet	INO.	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)
If none of the following sub-boxes is used, this sheet should not be included in the request.
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant only
KAMIYAMA Kejji
5-41, Matsugamoto-cho, Ibaraki-shi OSAKA
567-0033 JAPAN inventor only (If this check-box is marked, do not fill in below.)
State (that is, country) of nationality: Japan State (that is, country) of residence: Japan Japan
This person is applicant
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
State (that is, country) of nationality: State (that is, country) of residence:
This person is applicant for the purposes of: all designated States all designated States except the United States of America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
State (that is, country) of nationality: State (that is, country) of residence:
This person is applicant all designated all designated States except the United States the States indicated in
for the purposes of: States the United States of America of America only the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
State (that is, country) of nationality: State (that is, country) of residence:
This person is applicant for the purposes of: all designated States except the United States of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box N	lo.V	DESIGNATION OF STATES							
		g designations are hereby made under Rule 4.9(a) (ma	rk ti	he app	licable check-boxes; at least one must be marked):				
Regional Patent AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT									
EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State									
	of the Eurasian Patent Convention and of the PCT EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembou MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the								
	European Patent Convention and of the PCT OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chao TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of the PCT).								
M1_4:	onal F	protection or treatment desired, specify on dotted li	ne)						
	onal P AE	Patent (if other kind of protection or treatment desired, sp	ecity	on dot	ted line): Liberia				
_	AE AL	United Arab Emirates	님	LS	Lesotho				
	AM	Armenia		LT	Lithuania				
I =	AT	Austria		LU	Luxembourg				
	AU	Australia	H	LV	Latvia				
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	ВА	Bosnia and Herzegovina	\exists	MD	Republic of Moldova				
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1 ==	CN	China		NZ	New Zealand				
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	JP	Japan		YU	Yugoslavia				
	KE	Kenya		ZA	South Africa				
	KG	Kyrgyzstan		ZW	Zimbabwe				
	KP KR	Democratic People's Republic of Korea Republic of Korea			oxes reserved for designating States which have become the PCT after issuance of this sheet:				
	KZ	Kazakstan		DZ	Democratic People's Republic of Algeria				
	LC	Saint Lucia		AG	Antigua and Barbuda				
	LK	Sri Lanka		MZ matic	Mozambique				
Rule 4 Supple design	1.9(b) ement nation	all other designations which would be permitted al Box as being excluded from the scope of this s are subject to confirmation and that any desig	l und stat natio	der the ement on wh	ons made above, the applicant also makes under e PCT except the designation(s) indicated in the t. The applicant declares that those additional ich is not confirmed before the expiration of 15				
month	is fron	n the priority date is to be regarded as withdraw on (including fees) must reach the receiving Off.	m b	v the	applicant at the expiration of that time limit.				
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Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- 1. If, in any of the Boxes, the space in insufficient to furnish all the information: in such case, write "Continuation of Box No...." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are involved as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI;
- (vii) if, in Box No. VI, the earlier application is an ARIPO application: in such case, write "Continuation of Box No. VI", specify the number of the item corresponding to that earlier application and indicate at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed.
- 2. If, with regard to the **precautionary designation statement** contained in Box No. V. the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.
- 3. If the applicant claims, in respect of any designated Office, the benefits of provisions of the national law concerning non-prejudicial disclosures or exceptions to lack of novelty: in such case, write "Statement concerning non-prejudicial disclosures or exceptions to lack of novelty" and furnish that statement below.

[Continuation of Box No. IV]

Patent Attorney, Registered No. 11045, UCHIYAMA Tsutomu c/o Osaka Plant of Takeda Chemical Industries, Ltd. 17-85, Jusohonmachi 2-chome, Yodogawa-ku, Osaka-shi, OSAKA 532-0024 JAPAN

Sheet	No			5			

Box No. VI PRIORITY CI	in the Supplemental Box					
Filing Date	Number	Where earlier application is:				
of earlier application (<i>day/month/year</i>)	of earlier application	national application:	regional application:* regional Office	international application: receiving Office		
item(1) 17.06.99	Patent Application 11-171509	Japan				
item (2)						
item(3)						
The receiving Office is recoft the earlier application(spurposes of the present in	uested to prepare and transi (only if the earlier applicat. nternational application is the	mit to the International ion was filed with the O e receiving Office) ident	Bureau a certified copy office which for the ified above as item(s):-	(1)		
* Where the earlier application is Convention for the Protection of	s an ARIPO application, it is mar Industrial Property for which th	ndatory to indicate in the s nat earlier application was i	Supplemental Box at least of filed (Rule 4.10(b)(ii)). See .	one country party to the Paris Supplemental Box.		
Box No. VII INTERNATIO	NAL SEARCHING AUTHO					
Choice of International Searc (If two or more International are competent to carry out th indicate the Authority chosen, be used):	the two-letter code may	equest to use results o arlier search has been co earching Authority): ate (day/month/year)	f earlier search; refere arried out by or request Number	nce to that search (if an ed from the International Country(or regional Office)		
ISA /E P			, , , , , , , , , , , , , , , , , , , ,			
Box No. VIII CHECK LIST	T; LANGUAGE OF FILIN	1G				
This international application the following number of shee	ets:	onal application is accor alculation sheet	mpanied by the item(s)	marked below:		
request :	5 🖳	rate signed power of att	orney			
description (excluding sequence listing part) :	I 🛏	of general power of att	orney; reference number	r. if any:		
claims :	1	ment explaining lack of		, ,		
abstract :			_	am(a):		
drawings :			ified in Box No. VI as ite application into (languag			
sequence listing part of description : 0 separate indications concerning deposited microorganism or other biological material nucleotide and/or amino acid sequence listing in computer readable form						
Total number of sheets :	34 9. other	(specify);				
Figure of the drawings which should accompany the abstract		Language of filing of the international application		h		
	OF APPLICANT OR AGE					
Next to each signature, indicate a reading the request).	the name of the person signing a	and the capacity in which t	he person signs (if such ca	pacity is not obvious from		
TAKAHA	ASHI Shuichi	UCHI	YAMA Tsutomu			
5. Ja	lahash.	_ &	John			
Shuichi '	TAKAHASHI	Tsut	omu UCHIYAMA			
	For re	ceiving Office use	-			
 Date of actual receipt of international application: 		ceiving Office use 5.06.0 ()	2. Drawings:		
3. Corrected date of actual timely received papers or purported international a	receipt due to later but drawings completing the pplication:			received:		
4. Date of timely receipt of corrections under PCT A				not received:		
5. International Searchin (if two or more are co	g Authority ISA/E P	6. Transmitt until sear	tal of search copy delaye ch fee is paid	ed		
Date of receipt of the record by the International Bureau:	l conv	onal Bureau use only NE 2000		(30.06.00)		



PCT



INTERNATIONAL SEARCH REPORT

REC'D	02	OCT	2000
WIPO			PCT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		ification of Transmittal of Inte					
2635W00P	ACTION (Form F	C1/ISA/220) as well as, whe	re applicable, item 5 below.				
International application No.	International filing date (day/month	(Earliest) Priority	Date (day/month/year)				
PCT/JP 00/03881 15/06/2000 17/06/1999							
Applicant							
FUJISHIMA, Akira et al.							
This International Search Report has bee according to Article 18. A copy is being tra			itted to the applicant				
This International Search Report consists It is also accompanied by	of a total of3 she a copy of each prior art document ci						
Basis of the report	****		· · · · · · · · · · · · · · · · · · ·				
 a. With regard to the language, the language in which it was filed, unit 	international search was carried out ess otherwise indicated under this ite		al application in the				
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a trans	ation of the international app	lication furnished to this				
b. With regard to any nucleotide an was carried out on the basis of th	d/or amino acid sequence disclose e sequence listing :	d in the international applicat	ion, the international search				
	onal application in written form.						
	rnational application in computer rea	dable form.					
	this Authority in written form.						
	this Authority in computer readble fo						
the statement that the sul international application a	osequently furnished written sequenc s filed has been furnished.	e listing does not go beyond	the disclosure in the				
the statement that the info furnished	ormation recorded in computer reada	ole form is identical to the wr	tten sequence listing has been				
2. Certain claims were fou	nd unsearchable (See Box I).						
3. Unity of Invention is lacking (see Box II).							
4. With regard to the title ,							
the text is approved as su	bmitted by the applicant.						
	hed by this Authority to read as follow	vs:					
CRYSTALLINE FORM OF	2 2 - TRIEL HOROETHOVY	_2_DVDIDINVI JMETI	IVI TOHI ETNIVI 7 111				
BENZIMIDAZOLE	2,2,2-TRIFLUOROETHOXY)	-2-FIRIDINILJMEII	ILT JONEL THIE J-TH-				
5. With regard to the abstract,							
the text is approved as su	bmitted by the applicant.						
the text has been establis	hed, according to Rule 38.2(b), by the date of mailing of this international						
6. The figure of the drawings to be pub	ished with the abstract is Figure No.						
as suggested by the appl	cant.	X	None of the figures.				
because the applicant fail	ed to suggest a figure.						
because this figure better	characterizes the invention.						

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D401/12 A61K31/44 A61P1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched} & \mbox{(classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07D} & \mbox{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98 21201 A (TAKEDA CHEMICAL INDUSTRIES, LTD.) 22 May 1998 (1998-05-22) claims 1-10	1-7
Υ	EP 0 174 726 A (TAKEDA CHEMICAL INDUSTRIES, LTD.) 19 March 1986 (1986-03-19) cited in the application claims 1-10	1-7
A	WO 96 17077 A (ASTRA AKTIEBOLAG) 6 June 1996 (1996-06-06) page 1	1-7
Α	EP 0 302 720 A (TAKEDA CHEMICAL INDUSTRIES, LTD.) 8 February 1989 (1989-02-08) claims 1-8	1-7

Y Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.					
A Puttier decements are listed in the continuation of box C.	X Patent failing frientibers are instead in an inex.					
Special categories of cited documents :	"T" later document published after the international filing date					
"A" document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another						
citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the					
	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled					
P document published prior to the international filing date but later than the priority date claimed	in the art. "&" document member of the same patent family					
Date of the actual completion of the international search	Date of mailing of the international search report					
19 September 2000	04/10/2000					
Name and mailing address of the ISA	Authorized officer					
European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Herz, C					



tegory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
.ogory	Citation of Gooding and an analysis of the Ideatant passages	TOOPER TO GREET ING.
	CHEMICAL ABSTRACTS, vol. 124, no. 25,	1-7
	17 June 1996 (1996-06-17)	
	Columbus, Ohio, US; abstract no. 331460p,	
	H. KATSUKI ET AL.: "Determination of	
	<pre>R(+)- and S(-)-lansoprazole using chiral</pre>	
	stationary-phase liquid chromatography and	
	their enantioselective pharmacokinetics in humans"	
	page 19;	
	XP002147768	
	abstract	
	& PHARM. RES., vol. 13, no. 4, 1996, pages 611–615,	
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	tent document in search report		date		Patent family member(s)	Publication date
WO	9821201	Α	22-05-1998	AU	4965297 A	03-06-1998
				CN	1237167 A	01-12-1999
				EP	0944617 A	29-09-1999
				JP	10195068 A	28-07-1998
				US	6002011 A	14-12-1999
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				JP	2044473 B	04-10-1990
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				AT	42554 T	15-05-1989
				BG	60415 B	28-02-1995
				CA	1255314 A	06-06-1989
				DE	3569736 D	01-06-1989
				DK	356485 A	17-02-1986
				ES	546152 D	16-05-1986
				ĒS	8607288 A	01-11-1986
			•	GR	851981 A	16-12-1985
				HK	4792 A	17-01-1992
				HÜ	39444 A,B	29-09-1986
				ΪĒ	58363 B	08-09-1993
				KR	9202128 B	12-03-1992
				ĹŤ	2118 R	15-08-1993
				ĽΫ	5091 A	10-06-1993
				ĹŸ	5775 A	20-12-1996
				MX	9203043 A	01-07-1992
				NO	163131 C	24-10-1994
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				SG	103291 G	19-02-1993
				SU	1507211 A	07-09-1989
				US	4628098 A	09-12-1986
				US	4689333 A	25-08-1987
				ZA	8506117 A	30-04-1986
 WO	9617077	Α	06-06-1996	AU	699656 B	 10-12-1998
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				CA	2204000 A	06-06-1996
				EP	0795025 A	17-09-1997
				ĴΡ	10510164 T	06-10-1998
				ÜS	5776765 A	07-07-1998
EP	302720	Α	08-02-1989	AT	82283 T	15-11-1992
				CA	1263119 A	21-11-1989
				DE	3875848 A	17-12-1992
				DE	3875848 T	25-03-1993
				DK	171989 B	08-09-1997
				ES	2052728 T	16-07-1994
				ĞŔ	3006974 T	30-06-1993
				HÜ	49346 A,B	28-09-1989
				ΪĒ	61717 B	30-11-1994
				ĴΡ	1131176 A	24-05-1989
				JP	1959606 C	10-08-1995
				JP	6086444 B	02-11-1994
				KR	9600047 B	03-01-1996
			•	ÜS	5578732 A	26-11-1996
				US	33/8/32 A	20-11-199

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For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

REQUEST		•
	International Filing Date	
The undersigned requests that the present international application be processed	Name of receiving Office and	"PCT International Application"
according to the Patent Cooperation Treaty.	Applicant's or agent's file reference (if desired)(12 characters maximum	e 2635W∩0P
Box No. 1 TITLE OF INVENTION		
Benzimidazole Compound Ci	rystal	
Box No. II APPLICANT		
Name and address: (Family name followed by given name; designation. The address must include postal code and na of the address indicated in this Box is the applicant's State (no State of residence is indicated below.)	for a legal entity, full official me of country. The country that is, country) of residence if	X This person is also inventor.
		Telephone No.
FUJISHIMA Akira		Facsimile No.
1-6, Fujigaoka 1-chome, Sanda-shi 669-1547 JAPAN	, HYOGO	Teleprinter No.
OOS TORE JUN VIA		resepration INO.
State (that is, country) of nationality: Japan	State (that is, country) of r	esidence: Japan
This person is applicant all designated all designated for the purposes of:	ed States except States of America the Uni	ited States the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (F	URTHER) INVENTOR(S)	
		1
Name and address: (Family name followed by given name; designation. The address must include postal code and part the address indicated in this Box is the applicant's State (the State of residence is indicated below.)	for a legal entity, full official me of country. The country of at is, country) of residence if no	This person is:
Name and address: (Family name followed by given name; designation. The address must include postal code and partitle address indicated in this Box is the applicant's State (the State of residence is indicated below.) AOKI Isao	for a legal entity, full official me of country. The country of at is, country) of residence if no	abbricant cin,
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AOKI Isao 17-1, Daiwahigashi 3-chome, Kawan HYOGO 666-0111 JAPAN State (that is, country) of nationality:		X applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
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Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used,	this sheet should not be included in the request.			
Name and address: (Family name followed by given name; for designation. The address must include postal code and name of the address indicated in this Box is the applicant's State (that no State of residence is indicated below.)	or a legal entity, full official of country. The country of residence if applicant only			
KAMIYAMA Keiji	X applicant and inventor			
5-41, Matsugamoto-cho, Ibaraki-shi O 567-0033 JAPAN	SAKA inventor only (If this check-box is marked, do not fill in below.)			
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State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan			
This person is applicant for the purposes of: X all designated the United States all designated the United States	States except ates of America the United States the States indicated in the Supplemental Box			
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Further applicants and/or (further) inventors are indicated on another continuation sheet.				

	No.V	DESIGNATION OF STATES					
The for	followin ional Pa	ng designations are hereby made under Rule 4.9(a) <i>(me</i> Patent	ark t	the app	plicable check-boxes; at least one must be marked):		
Regio		ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT					
	EA	Eurasian Patent: AM Armenia, AZ Azerbajian, BY	M Tu	larus, I urkmer	KG Kyrgyzstan, KZ Kazakstan, MD Republic of nistan, and any other State which is a Contracting State		
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Nat	· -al ·	protection or treatment desired, specify on dotted li	line)				
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		Kazakstan			Democratic People's Republic of Algeria		
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months	s from	n the priority date is to be regarded as withdrawn on (including fees) must reach the receiving Office	า hv 1	the an	onlicant at the expiration of that time limit		



If the Supplemental Box is not used, this sheet should not be included in the request.

- 1. If, in any of the Boxes, the space in insufficient to furnish all the information: in such case, write "Continuation of Box No..." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (j) if more than two persons are involved as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Box No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI;
- (vii) if, in Box No. VI, the earlier application is an ARIPO application: in such case, write "Continuation of Box No. VI", specify the number of the item corresponding to that earlier application and indicate at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed.
- 2. If, with regard to the precautionary designation statement contained in Box No. V. the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.
- 3. If the applicant claims, in respect of any designated Office, the benefits of provisions of the national law concerning non-prejudicial disclosures or exceptions to lack of novelty: in such case, write "Statement concerning non-prejudicial disclosures or exceptions to lack of novelty" and furnish that statement below.

[Continuation of Box No. IV]

Patent Attorney, Registered No. 11045, UCHIYAMA Tsutomu c/o Osaka Plant of Takeda Chemical Industries, Ltd. 17-85, Jusohonmachi 2-chome, Yodogawa-ku, Osaka-shi, OSAKA 532-0024 JAPAN

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Box No. VI PRIORITY C	LAIM	Further prio	rity claims are indicated	in the Supplemental Box			
Filing Date	Number		Where earlier application	on is:			
of earlier application (day/month/year)	of earlier application	national application: country	regional application:* regional Office	international application: receiving Office			
item(1) 17.06.99	Patent Application 11-171509	Japan	-				
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The receiving Office is re of the earlier application(purposes of the present in	quested to prepare and transs s) (only if the earlier applicat nternational application is the	mit to the International ion was filed with the C e receiving Office) ident	Bureau a certified copy <i>ffice which for the</i> ified above as item(s) :_	(1)			
* Where the earlier application is Convention for the Protection of	is an ARIPO application, it is mai f Industrial Property for which th	ndatory to indicate in the a nat earlier application was i	Supplemental Box at least of filed (Rule 4.10(b)(ii)). See S	one country party to the Paris Supplemental Box.			
Box No. VII INTERNATIO	ONAL SEARCHING AUTHO						
Choice of International Sear (If two or more International are competent to carry out thindicate the Authority chosen be used):	;the two-letter code may	equest to use results on the search has been controlled the searching Authority): ate (day/month/year)	f earlier search; referer arried out by or requeste Number	nce to that search (if an ed from the International Country(or regional Office)			
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Figure of the drawings which should accompany the abstra		Language of filing of the international application		h			
	OF APPLICANT OR AGE						
Next to each signature, indicate reading the request).	the name of the person signing a	and the capacity in which t	he person signs (if such cap	oacity is not obvious from			
ТАКАН	ASHI Shuichi	UCHI	YAMA Tsutomu				
	5. Talahash Woln'						
Shuichi '	TAKAHASHI	Tsute	omu UCHIYAMA				
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 Date of actual receipt of international application: 	the purported			2. Drawings:			
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4. Date of timely receipt of corrections under PCT A	the required Article 11(2):			not received:			
5. International Searchin (if two or more are co	ng Authority ISA/E P	6. Transmitt until sear	al of search copy delaye ch fee is paid	d			
Date of receipt of the record by the International Bureau:		onal Bureau use only					

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent'	s file reference	FOR FURTHER	see Notification of	Transmittal of Interna	tional Search Report	
2635W00P		(Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application	tion No.	International filing date (de	v/month/vear)	(Earliest) Priority Da	te (day/month/year)	
77.044.000						
PCT/JP 00/03	3881	15/06/20	00	17/0	06/1999	
Applicant						
FUJISHIMA, A	kira et al.					
This International S	Search Report has beer	n prepared by this Internatio	nal Searching Auth	ority and is transmitted	to the applicant	
according to Article	18. A copy is being tra	insmitted to the International	l Bureau.			
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	Search Report consists		sheets.	mand		
X Iti	s also accompanied by	a copy of each prior art doc	ument cited in this	герот.		
1. Basis of the re	eport -					
	•	international search was car	rried out on the bas	is of the international a	application in the	
language i	n which it was filed, unl	ess otherwise indicated und	er this item.			
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2. C	ertain claims were fou	nd unsearchable (See Box	: I).	,		
3. 🗌 Ur	nity of invention is lac	king (see Box II).				
4. With regard to						
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ternational Application No T/JP 00/03881

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D401/12 A61K31/44 A61P1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC - 7 - C07D - A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98 21201 A (TAKEDA CHEMICAL INDUSTRIES, LTD.) 22 May 1998 (1998-05-22) claims 1-10	1-7
Y	EP 0 174 726 A (TAKEDA CHEMICAL INDUSTRIES, LTD.) 19 March 1986 (1986-03-19) cited in the application claims 1-10	1-7
A	WO 96 17077 A (ASTRA AKTIEBOLAG) 6 June 1996 (1996-06-06) page 1	1-7
A	EP 0 302 720 A (TAKEDA CHEMICAL INDUSTRIES, LTD.) 8 February 1989 (1989-02-08) claims 1-8	1-7

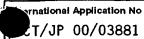
Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date. "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
19 September 2000	04/10/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Herz, C

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egory °	citation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	CHEMICAL ABSTRACTS, vol. 124, no. 25, 17 June 1996 (1996-06-17) Columbus, Ohio, US; abstract no. 331460p, H. KATSUKI ET AL.: "Determination of R(+)- and S(-)-lansoprazole using chiral stationary-phase liquid chromatography and their enantioselective pharmacokinetics in humans" page 19; XP002147768 abstract & PHARM. RES., vol. 13, no. 4, 1996, pages 611-615,	1-7
		
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EUROPEAN SEARCH REPORT

. Application number -2-

т		SIDERED TO BE RELEVAN		EP 88307191.2
Category		ith indication, where appropriate, vant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI 4)
D,Y	EP - B1 - 0 00 HASSLE)	5 129 (AKTIEBOLAGET	1	
	* Page 4, l example 1	ines 39-59; ; formula II,I,III	*	
D,Y	EP - A1 - 0 08	O 602 (BYK GULDEN)	1	
	* Abstract; 19-35 *	page 8, lines		
D,Y	EP - A1 - O 17	5 <u>464</u> (TAKEDA)	1	-
	* Æostract; 1-24; exa	page 4, lines mple 2 *		
D,Y	EP - A1 - O 17	 4 726 (TAKEDA)	1	
		page 4, line		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
D,Y	US - A - 4 255	 431 (JUNGGREN)	1 1	
,		column 4, lines	_	
				÷
	•			•
	The present search report has b	een drawn up for all claims		
	Place of search	Date of completion of the search	<u> </u>	Examiner
	VIENNA	04-10-1988		HAMMER
doc A: tech	CATEGORY OF CITED DOCL icularly relevant if taken alone icularly relevant if combined w ument of the same category inological background	IMENTS T: theory or p E: earlier pat after the fi ith another D: document L: document	ent document, ling date cited in the ap cited for other	lying the invention but published on, or plication reasons
O: non	-written disclosure rmediate document	& : member o document		ent family, corresponding

International application No. PCT/SE 95/00818

			\2F A2\00818					
A. CLA	SSIFICATION OF SUBJECT MATTER							
IPC6:	CO7D 401/12, CO7D 235/28 to International Patent Classification (IPC) or to bot	h national classification and IPC						
B. FIEL	B. FIELDS SEARCHED							
Minimum	documentation searched (classification system followe	d by classification symbols)						
IPC6:								
Document	ation searched other than minimum documentation to	the extent that such documents	are included in the fields searched					
	FI,NO classes as above							
Electronic (data base consulted during the international search (no	sme of data base and, where prac-	ticable, search terms used)					
CAS-ONL	LINE							
C. DOC	JMENTS CONSIDERED TO BE RELEVAN							
Category*								
A			Relevant to claim No.					
^	Eur. J. Biochem, Volume 166, 19 Kristine Sigrist-Nelson et	987, al "Po 19-5264 a	1-23					
	potent new inhibitor of the	a daetric (H ±						
	K)-ATPase" page 453 - page	459						
			`					
A	J. Am. Chem. Soc., Volume 106,	1004 D D&						
	d!, "AЛ ETTICIENT Asymmetri	c Ovidation of Sulf	1-23					
	to Sulfoxides" page 8188 -	page 8193						
		•						
x I	DE 4035455 A1 (BVV OU DEN LOUDE							
	DE 4035455 A1 (BYK GULDEN LOMBE GMBH), 14 May 1992 (14.05.	RG CHEMISCHE FABRIK 92)	24,25,34					
								
	r documents are listed in the continuation of Bo	x C. X See patent far	mily annex.					
A" document to be of p	ategories of cited documents: It defining the general state of the art which is not considered particular relevance	"T" later document published date and not in conflict w the principle or theory un	after the international filing date or priority ith the application but cited to understand derlying the invention					
Criter document but published on or after the international filling date "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive of particular relevance: the claimed invention cannot be considered novel or cannot be consider								
O' document referring to an oral disclosure, use, exhibition or other								
P document published prior to the international filing date but later than the priority date claimed.								
Pate of the served completion of the same patent family								
o dio mediata scarci report								
0 Octobe	er 1995	07 -4	11- 1995					
	nailing address of the ISA/	Authorized officer						
Vedish Patent Office								
acsimile No	. +46 8 666 02 86	Göran Karlsson Telephone No. +46 8 78:	2 25 00					
m PCT/ISA/210 (second sheet) (July 1992)								

International application No.
PCT/SE 95/00818

C (Ce-4	PC1/SE 95/0	 0818
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
X	Chem. Pharm. Bull., Volume 42, No 3, March 1994, Shin-ichi Yamada et al, "Syntheses and Antiulcer Activities of Novel 2-((6,7,8, 9-Tetrahydro-5H-Cyclohepta(b)Pyridin-9-Yl)Sulfinyl) -1H-Benzimidazole Analogues" page 718 - page 720	33,34
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	1	
		•
	(continuation of second sheet) (July 1992)	

International application No.

PCT/SE 95/00818

Box I	Observations where certain alole	FC1/3E 95/00818
	Observations where certain claims were found unsearchable (Continuati	
This inte	ernational search report has not been established in respect of certain claims unde	FArticle 17(2)(a) for the following
] 1. X	Claims Nos: 11-15 10 24	
1	because they relate to subject matter not required to be searched by this Aut A method for treatment of the himse	hority, namely:
	A method for treatment of the human or animal b see rule 39.1.	ody by therapy,
2. X	Claims Nos.: 30 and 32	
_	because they relate to parts of the international application that do not comply an extent that no meaningful international search can be carried out, specific	y with the prescribed requirements to such
	The compounds according to claims 30 and 32 are r in claim 1. According to Article 6, the claims sh	
3.	Claims Nos.:	,
	because they are dependent claims and are not drafted in accordance with the s	econd and third sentences of the total
Box II	Observations where unity of invention is lacking (Continuation of item 2 of	(first shoet)
This Inter	national Searching Authority found multiple inventions in this international a	· macaneet)
	a the metallions in this international a	pplication, as follows:
		•
	·	
1. A	s all required additional search fees were timely paid by the applicant, this archable claims.	international search report covers all
	s all searchable claims could be searched without effort justifying an additional fo any additional fee.	
3. A	s only some of the required additional search fees were timely paid by the app vers only those claims for which fees were paid, specifically claims Nos.:	plicant, this international search report
-		
No rest	required additional search fees were timely paid by the applicant. Consequer ricted to the invention first mentioned in the claims; it is covered by claims I	nily, this international search report is
	, was assessed by dames r	105.:
emark on F		
-mark on F	The additional search (sees were accompanied by the ann	plicant's protest.
n PCT/ISA	to protest accompanied the payment of additional search	b fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

Information on patent family members

Form PCT/ISA/210 (patent family annex) (July 1992)

International application No.

02/10/95 PCT/SE 95/00919

			02/10	,, 33	PUI/3E	32/00818
į	Patent document cited in search report	Publication date		nt family		Publication
i	DE-A1- 4035455		<u> </u>	mber(s)		date
	+055455	14/05/92	AU-A- Wo-a-	8840		11/06/92
١			HO V	9208	/10	29/05/92

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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF WITHDRAWAL OF DEMAND OR ELECTIONS

(PCT Rules 90bis.1 and 90bis.4 and Administrative Instructions, Section 415(b) and (c))

From the INTERNATIONAL BUREAU	<u> </u>	
То:	- -	00
TAKAHASHI, Shuichi	Z	
Osaka Plant of Takeda Chemical	Indust	ries,
Ltd.	중	7 2
17-85, Jusohonmachi 2-chome	1600/2900	2001
Yodogawa-ku	29	
Osaka-shi	8	
Osaka 532-0024		

Date of mailing (day/month/year) 03 September 2001 (03.09.01)	JAPON
Applicant's or agent's file reference 2635WO0P	IMPORTANT NOTIFICATION
International application No. PCT/JP00/03881	International filing date (day/month/year) 15 June 2000 (15.06.00)
Applicant	FUЛSHIMA, Akira et al

The applicant is hereby notified that the International Bureau received, on 09 January 2001 (09.01.01) a notice effecting withdrawal of:				
the demand				
the election of the following States:				
for an ARIPO patent (specify "all States" or, if the withdrawal concerns only some States, specify those States only by indicating the two-letter country codes):				
for a Eurasian patent for a European patent (specify "all States" or, if the withdrawal concerns only some States, specify those States only by				
indicating the two-letter country codes): .				
for an OAPI patent				
for a national patent (specify the States by indicating the two-letter country codes):				
ATTENTION The withdrawal does not affect the international application in respect to any elected State in which the national phase has already started.				
If they are affected by the withdrawal, the receiving Office, the International Searching Authority, the International Preliminary Examining Authority and the elected Offices concerned have been informed accordingly.				

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Masashi HONDA
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

09/674674

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

COMMUNICATION OF INTERNATIONAL APPLICATIONS

(PCT Article 20)

Date of mailing:

20 December 2000 (20.12.00)

To

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

in its capacity as designated Office

The International Bureau transmits herewith copies of the international applications having the following international application numbers and international publication numbers:

International application no.:

International publication no.:

PCT/JP00/03881

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer:

J. Zahra

Telephone No.: (41-22) 338.83.38

50 60 ation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference GR98P8538P	FOR FURTHER ACTION		ation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No. PCT/DE99/00889	International filing date (day/m 19 March 1999 (19.0		Priority date (day/month/year) 31 March 1998 (31.03.98)		
International Patent Classification (IPC) or no H01H 33/36	International Patent Classification (IPC) or national classification and IPC				
Applicant	SIEMENS AKTIENGESEI	LLSCHAFT	•		
Authority and is transmitted to the ap	pplicant according to Article 36.	•	nternational Preliminary Examining		
2. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a to	otal of sheets.				
3. This report contains indications relating to the following items: I					
Date of submission of the demand		completion of	this report		
26 October 1999 (26.10.99)		12 N	May 2000 (12.05.2000)		
Name and mailing address of the IPEA/EP		zed officer			
Faccimile No		ne No			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE99/00889

I. Basis of the report					
1. This rep under Ar	oort has been drawn or ticle 14 are referred to	on the basis of (Replacement shee in this report as "originally filed"	ts which have been furnished to the receiving Office in response to an invitation and are not annexed to the report since they do not contain amendments.):		
	_	application as originally filed.			
\triangleright	the description,	pages1-5	_, as originally filed,		
		pages	, filed with the demand,		
		pages	, filed with the letter of,		
		pages	, filed with the letter of		
\triangleright	the claims,	Nos.	, as originally filed,		
		Nos	, as amended under Article 19,		
		Nos.	, filed with the demand,		
		Nos. 1-3	, filed with the letter of		
		Nos.			
\boxtimes	the drawings,	sheets/fig 1/1	, as originally filed,		
		sheets/fig	_ , filed with the demand,		
		sheets/fig	_ , filed with the letter of ,		
		sheets/fig	_ , filed with the letter of		
2. The ame	endments have resulte	ed in the cancellation of:			
Г	the description.	pages			
Г		Nos			
	<u> </u>				
L	the drawings,	sheets/fig			
			nendments had not been made, since they have been considered as Supplemental Box (Rule 70.2(c)).		
10	go beyond the diserc	in as med, as mercared in an	e Supplemental Box (Rule 70.2(c)).		
4. Addition	nal observations, if ne	ecessary:			
			•		
	* *	talik i di kaman da di sere de tangga pada ana na m			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 99/00889

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-3	YES
	Claims		NO
Inventive step (IS)	Claims	1-3	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-3	YES
	Claims		NO

Citations and explanations

The subject matter of the invention differs from DE-A-2 244 793 (D1), which represents the closest prior art, by the features of the characterizing part of Claim 1. The technical problem addressed by the invention consists in facilitating the structural adaptation of drive devices to the movable contact members of various vacuum contact-breakers that require various tangential forces and displacement strokes.

This problem is solved by the features of Claim 1. Claim 1 and Claims 2 and 3, which are dependent on it, should therefore meet the requirements of PCT Article 33(2) and (3).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 99/00889

VIII. Certain observations on the international application						
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:						
Pursuant to PCT Rule 5.1(a)(ii), the description should						
cite the document D1 and briefly outline the relevant						
prior art contained therein.						